(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau



(43) International Publication Date 16 June 2005 (16.06.2005)

PCT

(10) International Publication Number WO 2005/053578 A1

- (51) International Patent Classification⁷: A61F 2/30, A61L 27/56, 27/14, C04B 41/47
- (21) International Application Number:

PCT/EP2004/013649

- (22) International Filing Date: 1 December 2004 (01.12.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 03027740.4

EP 2 December 2003 (02.12.2003)

- (71) Applicants (for all designated States except US): STIFTUNG, Robert, Mathys [CH/CH]; Bischmattstrasse 12, CH-2544 Bettlach (CH). AO RESEARCH INSTI-TUTE [CH/CH]; Clavadelerstrasse, CH-7270 Davos (CH).
- LUGINBUEHL, Reto (71) Applicants (for US only): [CH/CH]; STIFTUNG, Robert, Mathys, Bischmattstrasse 12, CH-2544 Bettlach (CH). RICHARDS, Geoff [CH/CH]; AO Research Institute, Clavadelerstrasse, CH-7270 Davos (CH). GWYNN, Iolo ap [GB/GB];

Institute of Biological Sciences, The University of Wales, Aberystwyth, Wales SY23 3DA (GB).

- (74) Agent: RUPP, Christian; Mitscherlich & Partner, Sonnenstrasse 33, Postfach 33 06 09, 80331 München (DE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: PROSTHETIC DEVICE FOR CARTILAGE REPAIR

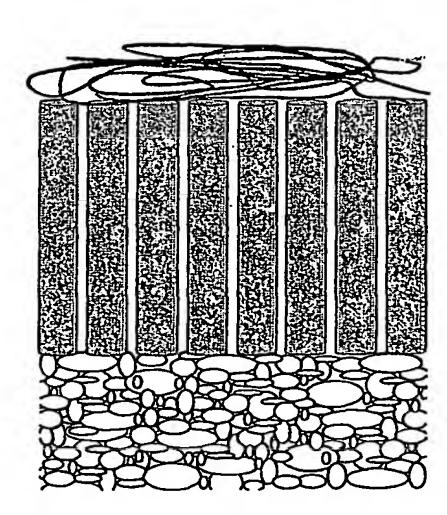
(1)



(2)

(3)

(4)



(57) Abstract: A triphasic prosthetic device (1) for repairing or replacing cartilage or cartilage-like tissue is described. The prosthetic device comprises at a highly oriented hollow body component (3) between a superficial random oriented polymer layer (2) and a base component (4).



WO 2005/053578 A1



before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.